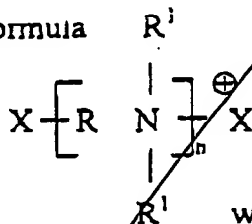


CLAIMS

Sub B1
 1. A biocidally synergistic mixture comprising THP, at least one THP-compatible non-surfactant biopenetrant and, optionally, a surfactant. ✓

2. A composition according to claim 1 wherein the non-surfactant biopenetrant comprises a polymer or copolymer, having a plurality of quaternary ammonium groups, a hydrotrope and/or a syntan. ✓

Sub B2
 3. A composition according to claim 2 comprising as biopenetrant a compound having a polymeric cation with the formula



wherein each R is a divalent organic group constituting, with the ammonium group, a monomeric residue, or is separately selected from two or more comonomeric residues and each R is an alkyl or hydroxyalkyl group, X is hydrogen or a monovalent inorganic or organic end capping unit and n is from 3 to 3000.

4. A composition according to claim 3 wherein the non-surfactant biopenetrant is a methylated polyethylene polyamine comprising a polymeric cation of the formula:

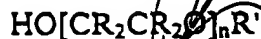


where n is from 2 to 10.

claim 1
 5. A composition according to ~~any foregoing claim~~ wherein the non-surfactant biopenetrant comprises poly[oxyethylene(dimethyliminio)ethylene (dimethyliminio)ethylene dichloride].

claim 1
 6. A composition according to ~~any foregoing claim~~ wherein the non-surfactant biopenetrant comprises a water soluble glycol ether.

7. A composition according to claim 6 wherein said glycol ether has the formula:



where each R is methyl or hydrogen, provided that the total number of carbon atoms per molecule does not exceed 4, R' is a lower hydrocarbon group such that the compound is water soluble and n is 1 to 20.

8. A composition according to claim 7 wherein the non-surfactant biopenetrant comprises diethyleneglycol methyl, ethyl or propyl ether.
9. A composition according to *claim 1* ~~any foregoing claim~~ wherein the non-surfactant biopenetrant comprises an alkyl benzene or alkyl naphthalene sulphonate having less than 5 aliphatic carbon atoms.
10. A composition according to *claim 1* ~~any foregoing claim~~ wherein the non-surfactant biopenetrant comprises a condensate of formaldehyde, acetone and/or THP with a phenol, aryl sulphonate, sulphone or sulphonamide, or urea, melamine, C₁ to 14 alkyl amine or dicyandiamide.
11. A composition according to *claim 1* ~~any foregoing claim~~ wherein said biopenetrant comprises urea and/or a urea THP condensate.
12. A composition according to *claim 1* ~~any foregoing claim~~ where said biopenetrant is a phosphono polycarboxylic acid.
13. A composition according to *claim 1* ~~any foregoing claim~~ consisting of an aqueous solution wherein the concentration of THP is from 10 to 75% by weight of the solution and the concentration of non-surfactant biopenetrant synergist is from 0.1 to 10% by weight of the solution.

14. A composition according to any foregoing claim additionally comprising a surfactant.
15. A composition according to claim 14 wherein the surfactant is present in a weight proportion of from 50:1 to 1:200 based on the weight of the THP.
16. A method for treating aqueous systems to prevent, inhibit or remove microbial contamination, which comprises adding thereto, together or separately, the components of a composition according to ^{claim} any foregoing claim.
17. A method according to claim 16 wherein the total weight proportion of THP and biopenetrants dosed to the system is from 2 to 1000ppm.

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Add
B4